

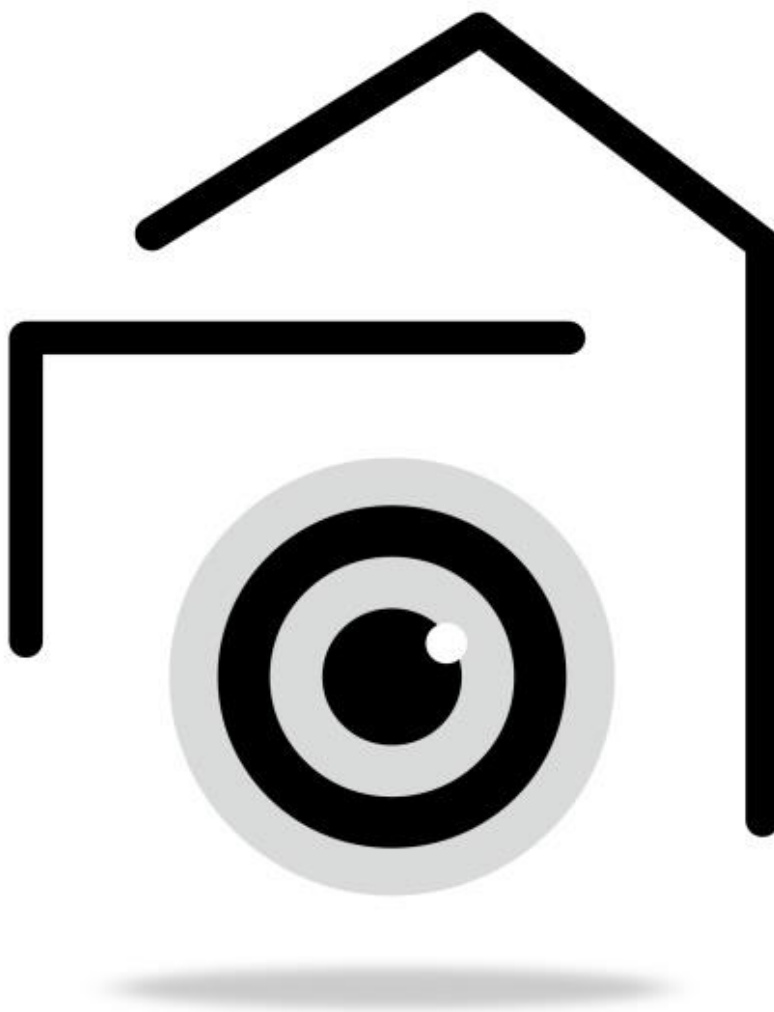
Network Camera Installation manual

NVC-BM1

NVC-DF1

NVC-DT1

NVC-DM1



Congratulations on the purchase of your Hills Professional CCTV solution.

It's important that you read this installation guide thoroughly before installation.

Thank you for choosing Hills.

Part no.	Model no.	Type	Model
S47092	NVC-DT1	Eyeball Dome camera	3MP IR Eyeball Camera (4mm)
S47091	NVC-DF1	Dome camera	3MP IR Dome Camera (4mm)
S47090	NVC-BM1	Bullet Camera	3MP IR Bullet Camera (4mm)
S47093	NVC-DM1	Mini Dome Camera	3MP IR Mini Dome Camera (2.8mm)

Checklist before you start:

- ☐ All carton contents present and are in good conditions.
- ☐ Ensure power supplies are off during installation.
- ☐ Power supply voltage rating as specified in product specification.
- ☐ Installation environment match is as specified.
- ☐ Contact your dealer if product does not function properly. Do not attempt to repair yourself.
- ☐ Wall or mounting platform is strong enough to withstand three times the weight of the camera.

For further information, including datasheets, FAQ and technical support please visit:

www.hills.com.au/videosecurity

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1.1 Overview

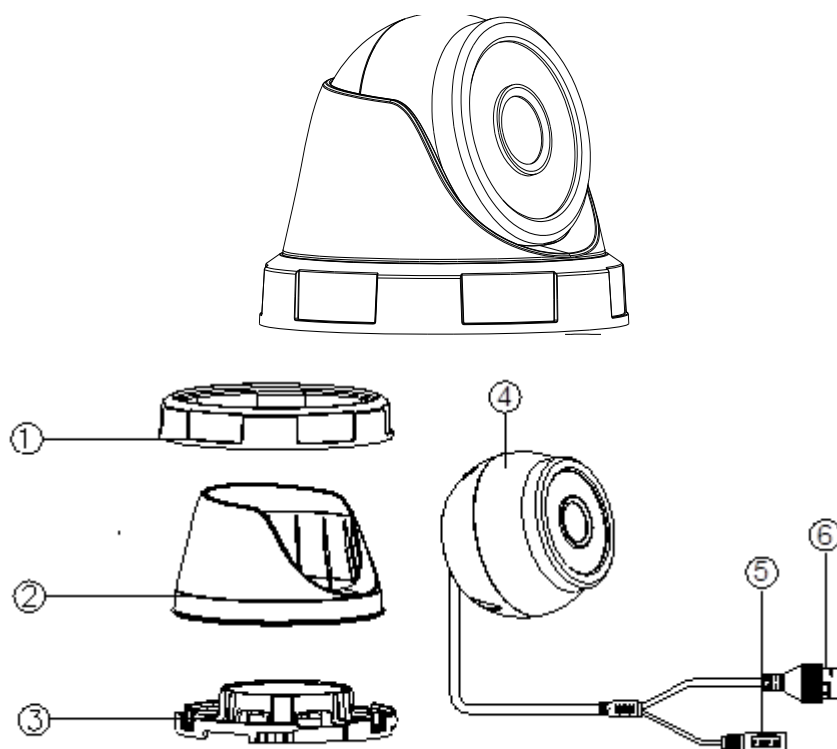


Figure 1-1 Product Structure Diagram

Table 1-1 Description

NO.	Description
1	Ethernet interface, PoE
2	Power Cable, 12V DC
3	Trim Ring
4	Camera

Note:

This camera supports Power over Ethernet (PoE), and the standard power supply is 12V DC. If a power adaptor is used please make sure that it is compatible with the camera.

1.2 Installation

Before you start, please verify the package contents are correct by checking the items against the carton content list in the Quick Guide, and make sure all the components are included.

Note:

- Please make sure that the wall is strong enough to withstand three times the weight of the camera.
- Wall mounting is recommended for this camera.
- The wall must be strong enough to withstand more than three times the weight of the camera.

Steps:

1. Disassembling the Trim Ring

- 1) Rotate the trim ring counterclockwise to remove it from the camera.

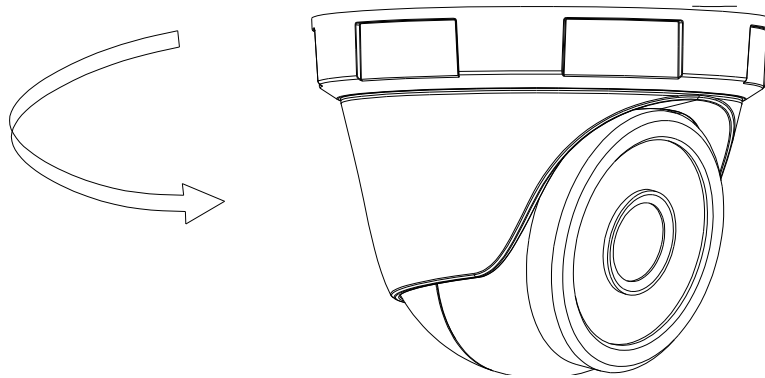


Figure 1-2 Disassembling the Trim Ring

2. Drill the Holes

- 1) Attach the supplied drill template to the position where you want to fix the camera.
- 2) Drill the screw holes and the cable hole on the ceiling according to the drill template.

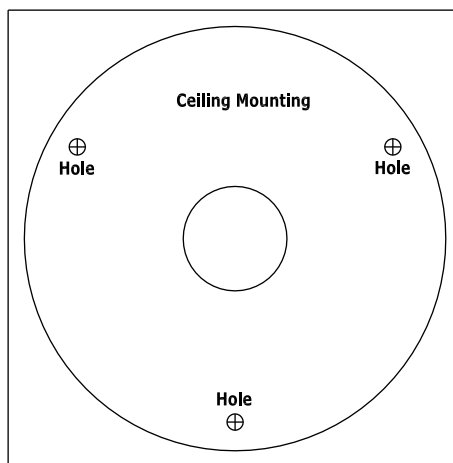


Figure 1-3 The Drill Template

There are two cable outlet methods. One is to route the cables through the cable hole, and the other is to route the cables through the side outlet shown below.

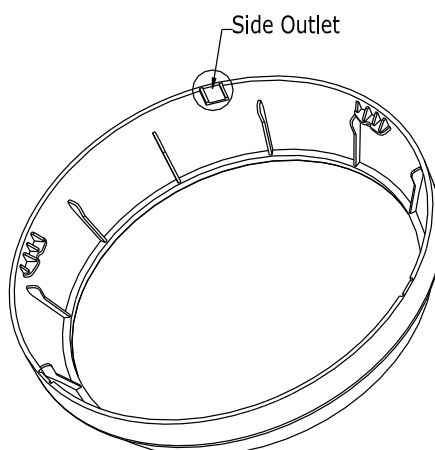


Figure 1-4 Side Outlet

Note:

Three side outlets on the enclosure are selectable, which makes routing the cables easier instead of drilling a cable hole on the ceiling. Use a plier to remove the plastic and route the cables through the hole.

3. Install the Camera

- 1). Connect the corresponding power/video cables.
- 2). Insert the supplied screws to the screw holes.
- 3). Tighten the screws to secure the camera to the ceiling.

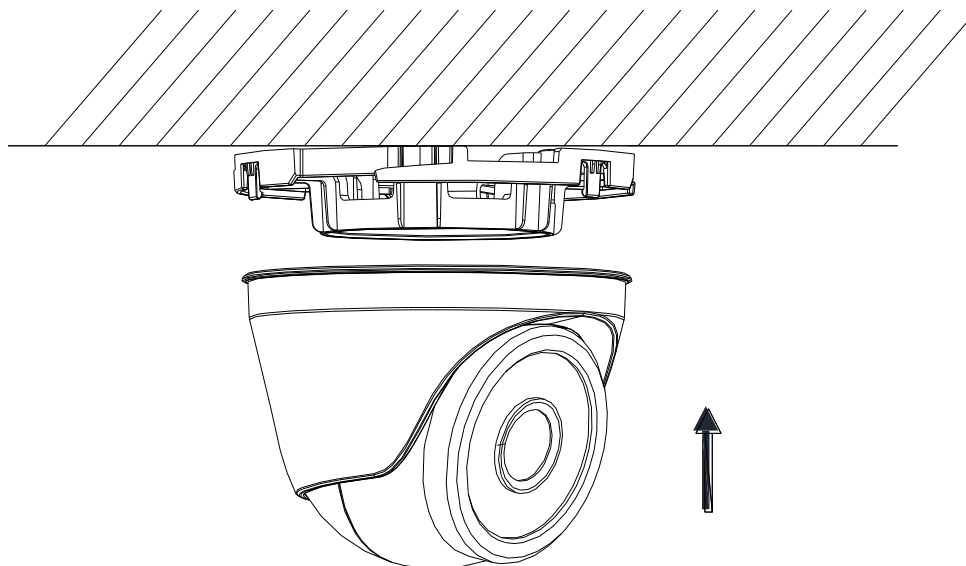


Figure 1-5 Secure the Camera to the Ceiling

4. Adjust the Lens

- 1). Loosen the lock screw.
- 2). Rotate the enclosure to adjust the pan angle; rotate the camera to adjust the tilt angle.
- 3). Tighten the lock screw to clamp the lens.

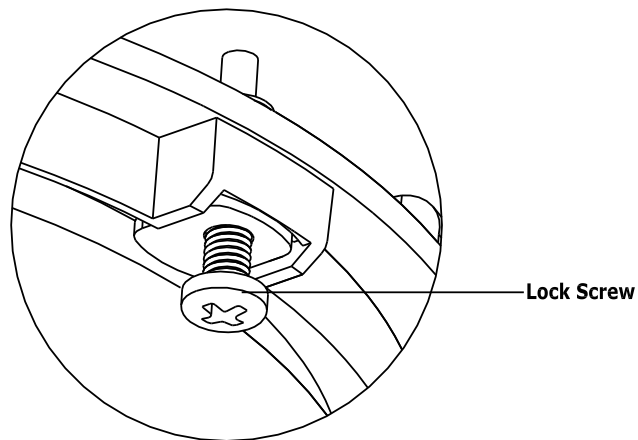


Figure 1-6 Lock Screw

5. Install the Trim Ring

- 1). Attach the trim ring to the camera.
- 2). Rotate the trim ring clockwise to secure it to the camera.

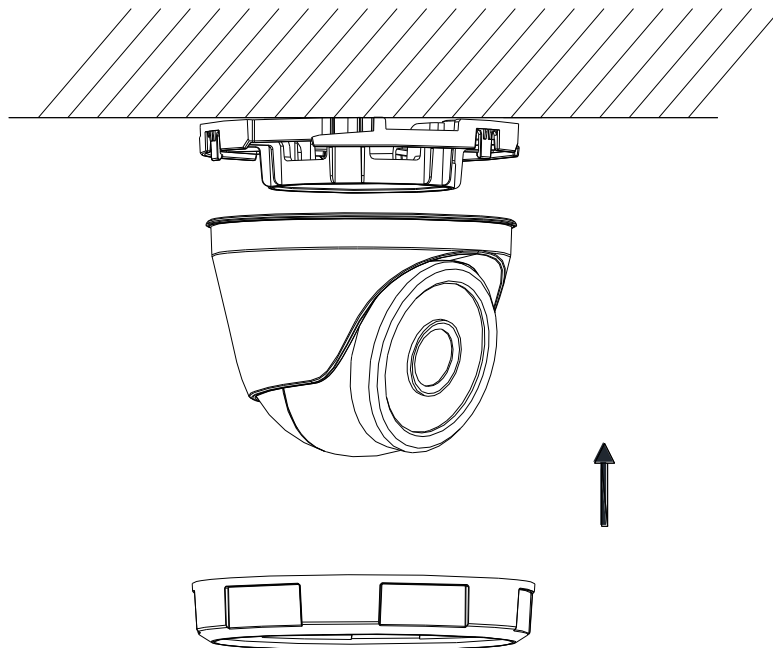


Figure 1-7 Install the Trim Ring

2.1 Overview

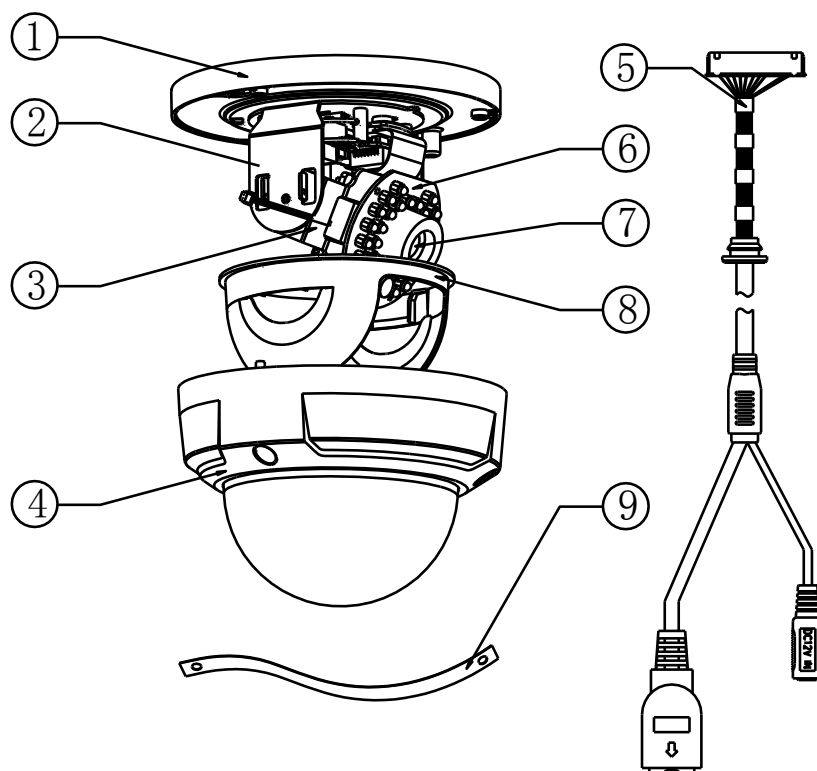


Figure 2-1 Overview

Table 2-1 Physical Description

No.	Description
1	Mounting base
2	Horizontal stand
3	Vertical stand
4	Lower dome
5	Cables
6	Plate of infrared lamp
7	Lens
8	Black Liner
9	Safety rope

2) Fix the mounting base on the ceiling with screws.

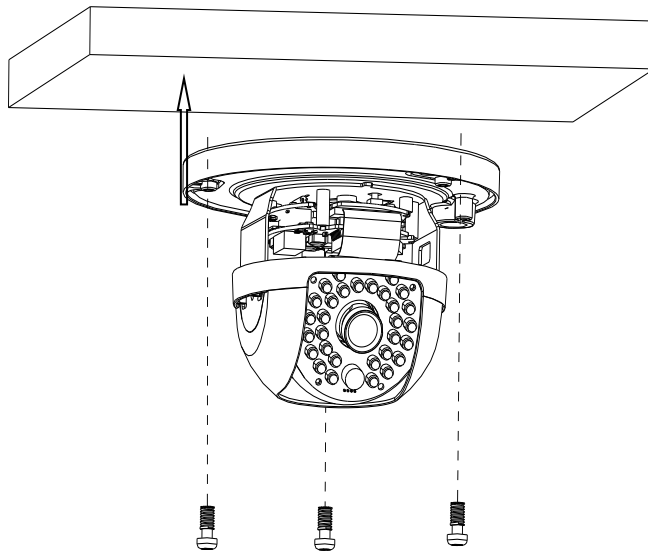


Figure 2-4 Fix the Mounting Base

Note:

If required, you can route cables through the side opening on the side of the mounting base.

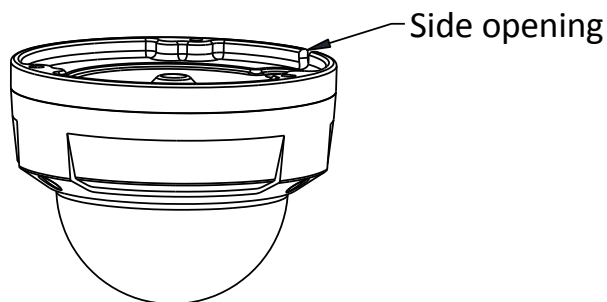


Figure 2-5 Side Opening

3. Adjust the Lens

Loosen the tilt lock screws, adjust the tilting position in a range of 65 degrees, and tighten the tilt lock screws. Rotate the black liner to adjust the panning position in a range of 360 degrees until getting the desired surveillance angle.

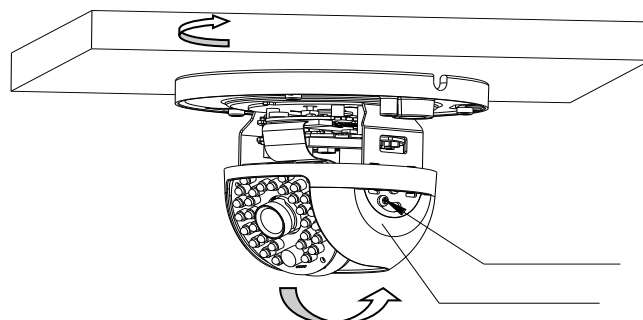


Figure 2-6 Angle Adjusting

Note:

As the lens of camera has already been factory adjusted to the best imaging effect, you just need to adjust the panning position and tilting position to get the desired surveillance angle.

4. Install the dome cover

Reinstall the lower dome and tighten the screws.

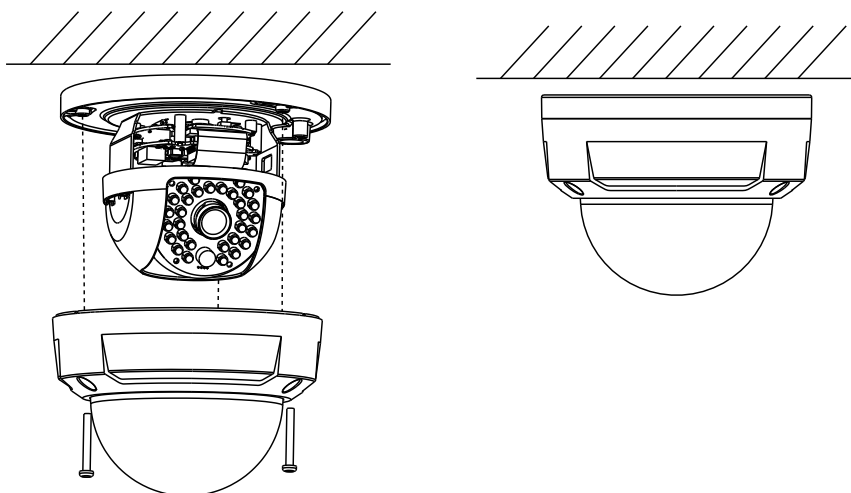


Figure 2-7 Reinstalling

3.1 Overview

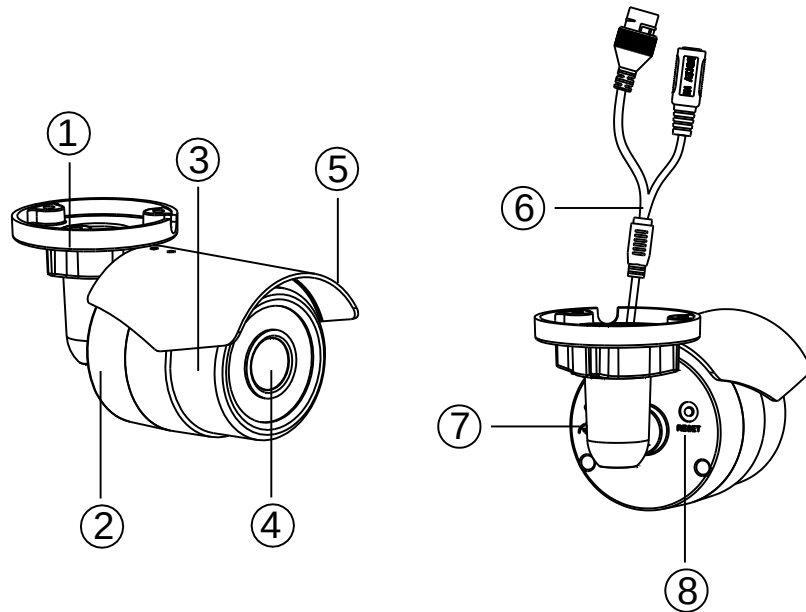


Figure 3-1 Product Structure Diagram

Table 3-1 Physical Description

No.	Description
1	Adjustable Bracket
2	Back Box
3	Front Box
4	Lens
5	Sun Shield
6	Power & Network cable
7	Grounding Screw
8	Reset

3.2 Installation

Note:

Please make sure that the ceiling or wall is strong enough to withstand three times the weight of the camera and the housing.

Steps:

1. Install the Camera

This series of camera is designed as a whole compact structure, and you only need to secure the mounting base to the ceiling with the supplied screws.

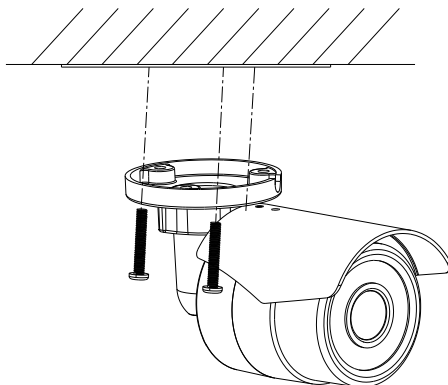


Figure 3-2 Secure the Camera to the ceiling

2. Three-Axis Adjustment

Loosen the adjusting nuts on the bracket, and adjust the camera from P/R/T direction.

P Direction: 0~360°adjustable.

T Direction: 0~90°adjustable.

R Direction: 0~360°adjustable

Adjust the lens to the surveillance angle. Tighten the adjusting nuts to complete the installation.

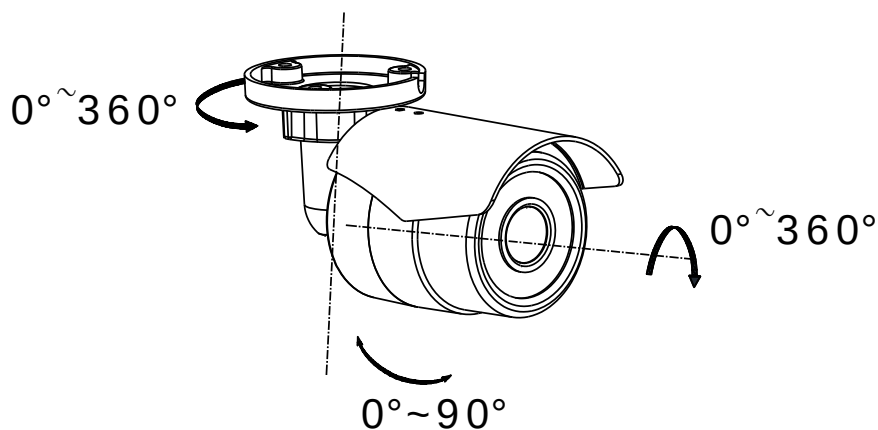


Figure 3-1 Three-axis adjustment

4.1 Overview

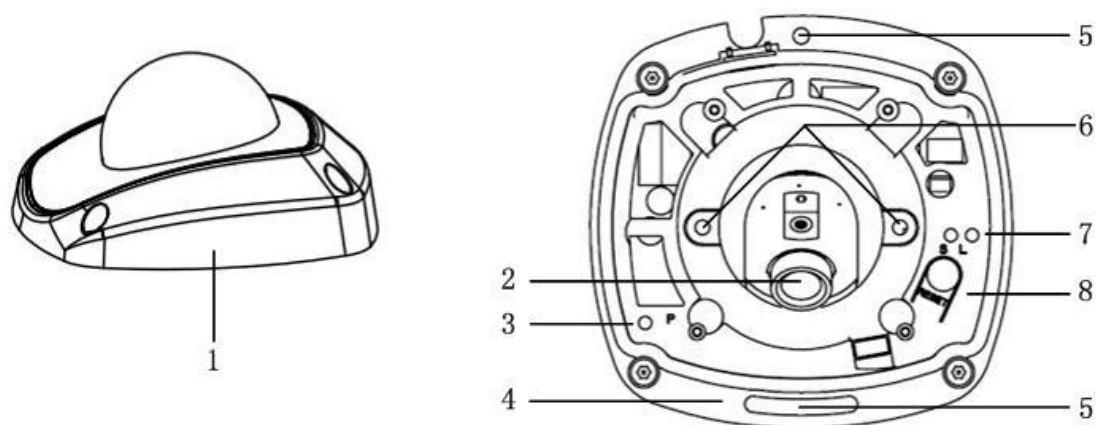


Figure 4-1 Overview

Table 4-1 Physical Description

No.	Description
1	Cover
2	Lens
3	Power LED indicator*
4	Base plate
5	Set screw hole
6	Set screw of lens
7	S & L: Network status LED indicator.#
8	RESET: Reset button.

(*) It is solid red when power is applied to the unit.

(#) When the network is connected, the “S” LED is solid yellow, while the “L” LED flashes orange.

Note:

To reset the default parameters to the camera, you need to press and hold the RESET button and power on the camera. After the powering on the camera, you must still press and hold the Reset button for about 20 seconds

4.2 Installation

Note:

- The ceiling mounting is recommended for this camera.
- If required, you can use a plier to remove the clip on the side of the back box and then route cables through the opening to secure the cables on the ceiling.

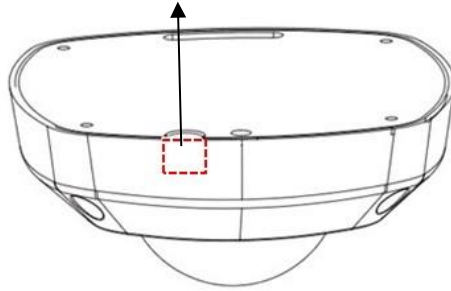


Figure 4-2 Remove the Clip

Steps:

1. Install the camera

Loosen the set screws with a hex key (supplied) to remove the cover.

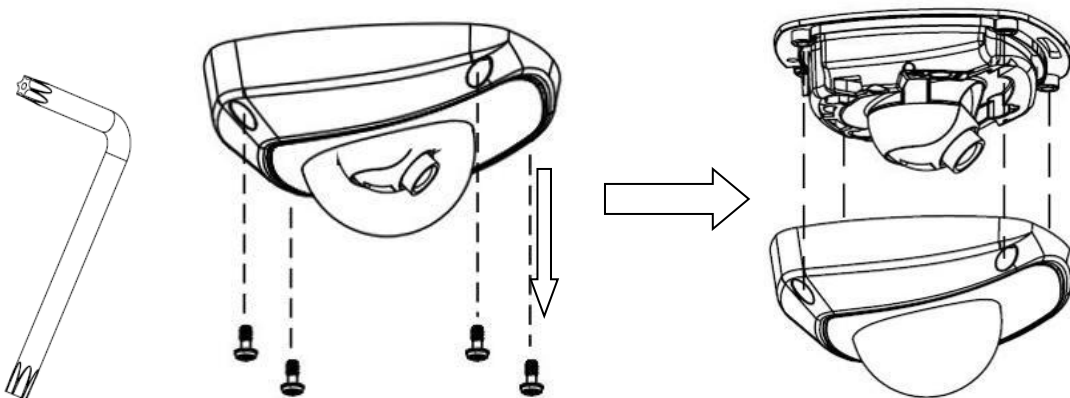


Figure 4-3 Remove the Cover

Use the screws to fix the base plate on the ceiling.

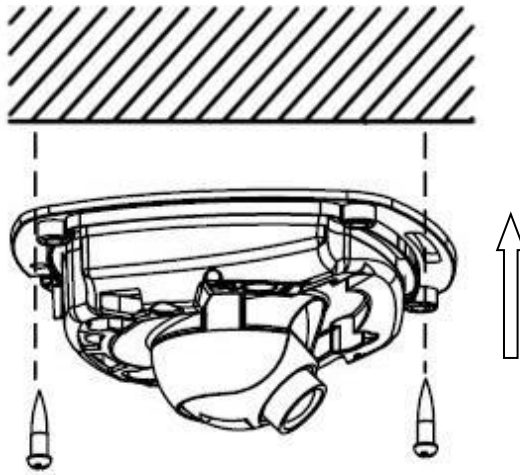


Figure 4-4 Fix the Base Plate

2. Adjust the Lens

- 1) View the video image of the camera over the network.
- 2) Loosen the lens set screws.

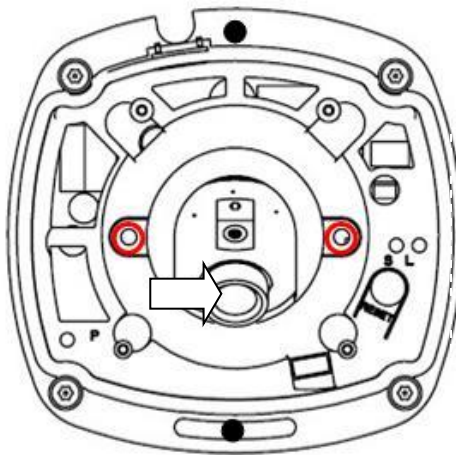


Figure 4-5 Loosen Set Screws

- 3) Insert the hex key into the hole marked in the 0 and rotate the hex key to adjust the panning position and tilting position until getting the desired surveillance angle. Tighten the set screws.

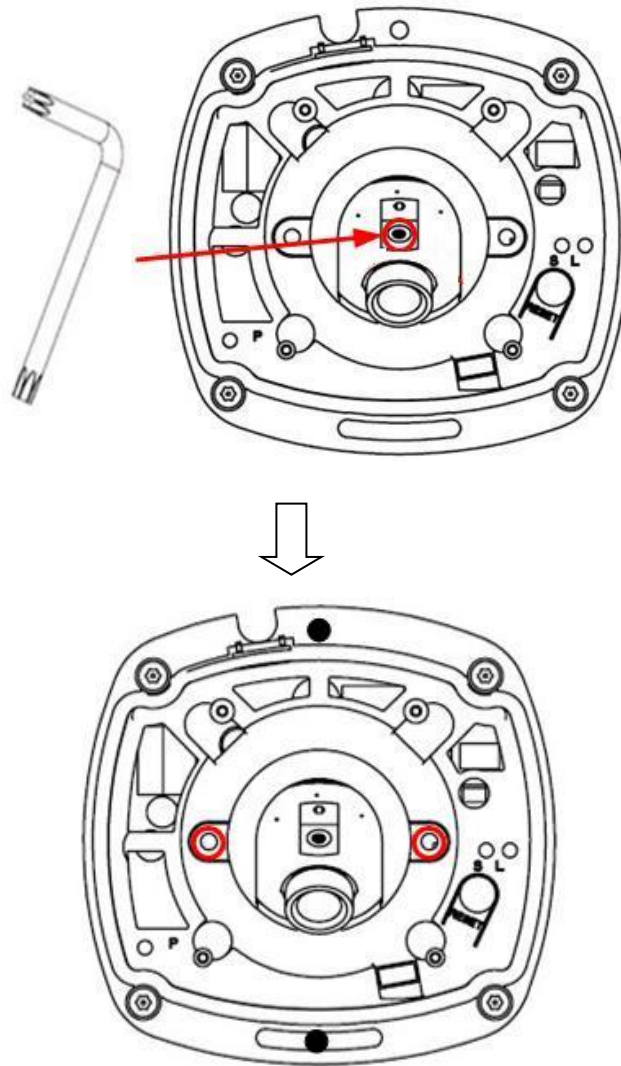


Figure 4-6 Adjust Image

Notes:

- As the lens of camera has already been factory adjusted to the best imaging effect, you just need to adjust the panning position and tilting position to get the desired surveillance angle.
- Reinstall the cover before viewing the image of the camera because you may get an unclear image without the cover.

3. Install dome cover

Reinstall the cover, and tighten the set screws.

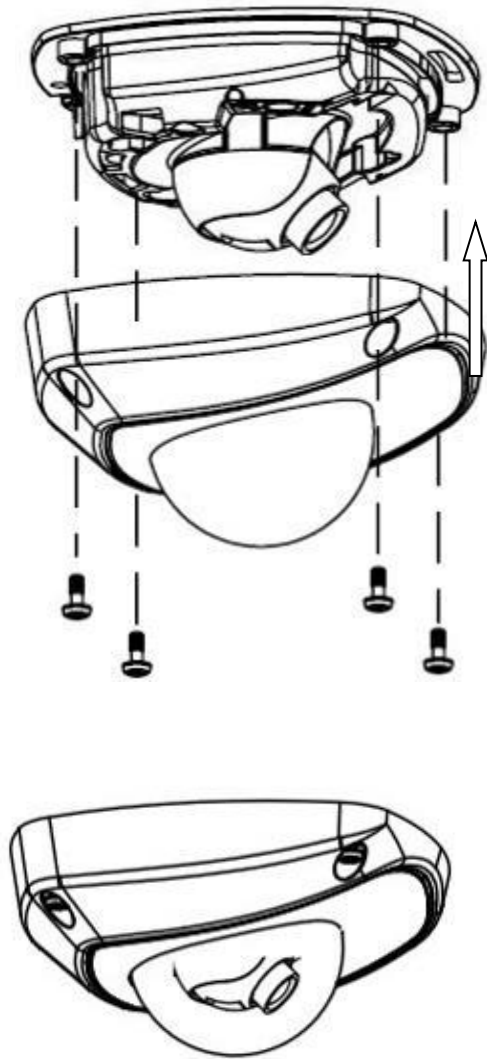


Figure 4-7 Reinstall

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